SIEMENS

up to
17.5 kV
up to 40 kA

AIR-INSULATED MEDIUM-VOLTAGE SWITCHGEAR

NXAIR – Enjoy the Air

siemens.com/nxair

NXAIR medium-voltage switchgear up to 17.5 kV, up to 40 kA is the ideal basis for setting up a reliable power grid. Thanks to its air-insulated technology, the system offers an environmentally friendly and sustainable basis for power supply in industry, offshore and in the public sector.
NXAIR is an essential part of the Siemens switchgear portfolio with more than 610,000 panels installed all over the world.

Fit for the future thanks to possible features

IoT connection via SICAM A8000 and MQTT

Monitor switchgear health

Flexible visualization enables deep dive

With NXpower Monitor part of Siemens Xcelerator

Your benefits

- Saves life – all operations only possible when the high-voltage door is closed
- Saves money by using maintenance free switching devices
- Ensures maximum reliability due to factory-finished, type-tested system according to IEC 62271-200
- Increases productivity through maintenance intervals of the switchgear > 10 years
- Protects the environment by using air as an insulating medium

NXAIR stands for maximum operational and personal safety, highest reliability, and operator friendliness. Thanks to its compact dimensions, minimum use of components requiring maintenance, and its simple and reliable operating mechanisms, NXAIR is real value for money, as life cycle cost calculations show.

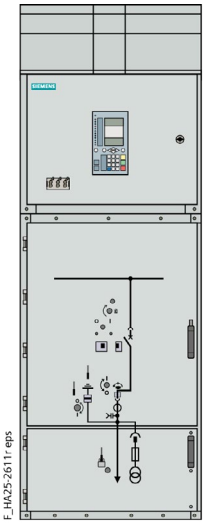
Technical data of NXAIR up to 17.5 kV, up to 40 kA

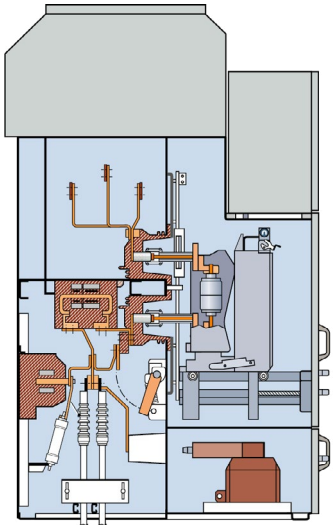
Rated values

Rated voltage	kV	≤ 12				17.5			
Rated frequency	Hz	50/60				50/60			
Rated short-duration power-frequency withstand voltage	kV	28[1]				38			
Rated lightning impulse withstand voltage	kV	75				95			
Rated short-circuit breaking current	kA	40				40			
Rated short-time withstand current (3 s)	kA	40				40			
Rated short-circuit making current	kA	100/104				100/104			
Rated peak withstand current	kA	100/104				100/104			
Rated continuous current of busbar	A	4000				4000			
Rated continuous current of feeders	A	450[2]	630/1000	1250/2000	2500/3150/4000	630/1000	1250/2000	2500/3150/4000	
Width	mm	435	600	800	1000	600	800	1000	
Height	mm	2300				2300			
Depth	mm	1400	1350[3]/1500			1350[3]/1500			

[1] GOST standard: 32 kV at 7.2 kV, 42 kV at 12 kV [2] Contactor panel [3] ≤ 31.5 kA, ≤ 2500 A

Basic panel design





Technical features

- Factory-assembled, type-tested switchgear according to IEC 62271-200
- Loss of service continuity category LSC 2B
- Partition class PM (metal-clad)
- Internal arc classified switchgear according to IAC A FLR for an arc duration of 1 s
- Confinement of an internal arc to the respective compartment (pressure-resistant partitions), beyond the specifications of the standard (up to 31.5 kA)
- Compact design
- All operations only with high-voltage door closed
- Unambiguous position indicators and control elements as standard on the high-voltage door
- Use of maintenance-free vacuum circuit-breakers or vacuum contactors
- Type testing of earthing switch, vacuum circuit-breaker or vacuum contactor in the panel
- Cable testing without isolating the busbar

Product range overview

- Circuit-breaker panel
- Disconnecting panel
- Metering panel
- Bus sectionalizer
- Contactor panel
- Busbar connection panel

NXAIR Tutorials

Catalog NXAIR up to 17.5 kV, up to 40 kA

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